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(74) Agent: VERMETTE & CO.; Box 40, Granville Square,  
230-200 Granville Street, Vancouver, British Columbia  
V6C 1S4 (CA).

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(71) Applicant (for all designated States except US): INT. SIL-  
VATECH INDUSTRIES INC. [CA/CA]; 27489 - 56th  
Avenue, Langley, British Columbia V4W 3X1 (CA).

(72) Inventors; and

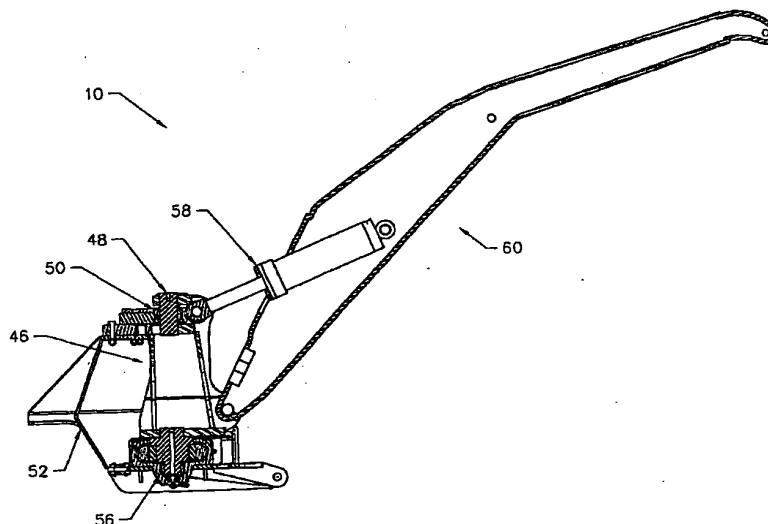
(75) Inventors/Applicants (for US only): DYCK, Gerald  
[CA/CA]; 37667 Dawson Road, Abbotsford, British  
Columbia V3G 2K9 (CA). DRIES, Paul [CA/CA]; 2734  
Mara Drive, Coquitlam, British Columbia V3C 5R9 (CA).  
SNIPSTEAD, Brent [CA/CA]; 32936 Fourteenth Avenue,  
Mission, British Columbia V2V 2P2 (CA).

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(54) Title: SWING BOOM PIVOT MECHANISM



(57) Abstract: The present invention relates to a swing boom assembly (10), which has a fixed base (52), a pivot base (40) rotatably mounted on the fixed base, and a boom (60) pivotally coupled to the pivot base. The boom is coupled proximate a lower end of the pivot base and has a hydraulic piston cylinder (59) coupled between the boom and an upper end of the pivot base. The hydraulic piston cylinder is operative to raise and lower the boom. The pivot base has an upper shaft (48), a main body (54) having a pair of spaced apart clevis plates affixed to each end of the upper shaft, and a spherical bearing (50) rigidly mounted around the upper shaft between the clevis plates and said bearing having an outer race rigidly mounted to the fixed base. The hydraulic piston cylinder is coupled to the main body of the pivot base rather than directly to an upper shaft.

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